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Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	09/769,136			
Filing Date	1/25/2001			
First Named Inventor	Spencer A. Rathus			
Art Unit	2876			
Examiner Name	Le, Thien Minh	_		
Attorney Docket Number	660-016			

				U. S. PATENT	DOCUMENTS	
Examir Initials		Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
			Number-Kind Code ^{2 (I known)}			Figures Appear
10	4	1	^{US-} 3,705,384	12-05-1972	Wahlberg	
[2	^{US-} 3,735,350	05-22-1973	Lemelson	1
		3	^{US-} 3,976,995	08-24-1976	Sebestyen	
		4	^{US-} 4,117,542	09-26-1978	Klausner et al.	
		5	^{US-} 4,283,621	08-11-1981	Pembroke	
		6	^{US-} 4,601,573	07-22-1986	Utsugi	
		7	^{US-} 4,659,213	04-21-1987	Matsumoto	
		8	^{US-} 4,711,994	12-08-1987	Greenberg	
		9	^{US-} 4,723,212	02-02-1988	Mindrum et al.	
		10	^{US-} 4,793,813	12-27-1998	Bitzer et al.	
		11	^{US-} 4,812,879	03-14-1989	Suzuki	
•	,]	12	^{US-} 4,820,167	04-11-1989	Nobles et al.	
		13	^{US-} 4,839,507	06-13-1989	May	
		14	^{US-} 4,897,865	01-30-1990	Canuel	
		15	us- 4,910,672	03-20-1990	Off et al.	
		16	^{US-} 4,984,155	01-08-1991	Geier et al.	
		17	^{US-} 5,002,491	03-26-1991	Abrahamson et al.	
		18	^{US-} 5,021,984	06-04-1991	Meade et al.	
W		19	^{US-} 5,027,196	06-25-1991	Ono et al.	

			IGN PATENT DOCL	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ³ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	
Qu	20	DE 2452202 A1	11-20-1975	Waterbury		\vdash
	21	JP 60-46,684	03-13-1985	Masaaki et al.		T
	22	JP 62-98,334	05-07-1987	Yoshitomo, Abe		
	23	EP 357899 A	03-14-1990	Schulz		
	24	GB 2 232 119 A	12-05-1990	Webster et al.		
tru	25	JP 02103025 A	04-16-1990	Hirata, Hideyuk		┢

		/			
Examiner Signature	LE THEN		Date Considered	9/30/	1004

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Sheet 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number 09/769,136 Filing Date 1/25/2001 First Named Inventor Spencer A. Rathus Art Unit 2876 **Examiner Name** Le, Thien Minh

Complete if Known

Attomey Docket Number 660-016

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Donne Column Line 146
Initials*	No.1	Document Number	MM-DD-YYYY	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code ^{2 (# known)}			Figures Appear.
TH	26	^{US-} 5,031,098	07-09-1991	Miller et al.	
	27	^{US-} 5,111,196	05-05-1992	Hunt, Peter F.	
	28	^{US-} 5,119,188	06-02-1992	McCalley et al.	
	29	^{US-} 5,158,310	10-27-1992	Tannehill et al.	
	30	^{US-} 5,168,303	12-01-1992	lkenoue et al.	
	31	^{US-} 5,173,851	12-22-1992	Off et al.	·
	32	US- 5,181,062	01-19-1993	Kazumi, Jiro	· .
	33	^{US-} 5,204,813	04-20-1993	Samph et al.	
	34	^{US-} 5,222,624	06-29-1993	Burr	
	35	^{US-} 5,235,509	08-10-1993	Mueller et al.	
	36	^{US-} 5,262,860	11-16-1993	Fitzpatrick et al.	
	37	^{US-} 5,287,181	02-15-1994	Holman	
	38	^{US-} 5,287,266	02-15-1994	Malec et al.	
	39	^{US-} 5,288,977	02-22-1994	Amendolia et al.	
	40	us- 5,295,064	03-15-1994	Malec et al.	
	41	^{US-} 5,295,836	03-22-1994	Ryu et al.	:
	42	^{US-} 5,302,990	04-12-1994	Satoh et al.	
	₂ 43	^{US-} 5,310,349	05-10-1994	Daniels et al.	
10	44	^{US-} 5,353,219	10-04-1994	Mueller et al.	1

		FORE	IGN PATENT DOCL	IMENTS		
Examiner Initials*	Cite No.1	Cite Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ³ (If known)	MM-DD-YYYY		Or Relevant Figures Appear	
(A)	45	JP 02127792 A	05-16-1990	Oki, Shinji		┌╴
	46	JP 03151263 A	06-27-1991	Osawa		
	47	JP 03174693 A	07-29-1991	Ashida et al.		
\	48	JP 04-023,183	01-27-1992	Masahide	1 .	
	49	JP 06110913 A	04-22-1994	Watanabe		
(A)	50	JP 6-233,159	08-19-1994	Tsutomu		

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Examiner Signature Date Considered G 90	12091

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Sheet 3

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known **Application Number** 09/769,136 Filing Date 1/25/2001 First Named Inventor Spencer A. Rathus Art Unit 2876 Examiner Name Le, Thien Minh Attorney Docket Number 660-016

Examiner	Cite	Document Number	Publication Date	DOCUMENTS Name of Patentee or	Pages Columns Line 14th and
Initials*	Cite No.1	Number-Kind Code ² (7 known)	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Try	51	^{US-} 5,368,129	11-29-1994	Von Kohorn	
	52	^{US-} 5,369,571	11-29-1994	Metts	1
	53	^{US-} 5,385,371	01-31-1995	Izawa	
	54	^{US-} 5,385,475	01-31-1995	Sudman et al.	
	55	^{US-} 5,397,156	03-14-1995	Schach et al.	
	56	^{US-} 5,401,944	03-28-1995	Bravman	
1)	57	^{US-} 5,410,642	04-25-1995	Hakamatsuka et al.	
	58	^{US-} 5,412,191	05-02-1995	Baitz et al.	
	59	^{US-} 5,451,998	09-19-1995	Hamrick	
	60	^{US-} 5,452,379	09-19-1995	Poor	
	61	^{US-} 5,493,355	02-20-1996	Kazami	
	62	^{US-} 5,500,681	03-19-1996	Jones	
	63	^{US-} 5,505,494	04-09-1996	Belluci et al.	
	64	^{US-} 5,506,697	04-09-1996	Li et al.	
	65	US- 5,551,011 ·	08-27-1996	Danby et al.	
	66	^{US-} 5,555,496	09-10-1996	Tackbary et al.	
$\perp \perp$	67	^{US-} 5,559,714	09-24-1996	Banks et al.	
	68	^{US-} 5,578,797	11-26-1996	Hewitt et al.	
150	69	^{US-} 5,612,868	03-18-1997	Off et al.	

		FORE	IGN PATENT DOCL	JMENTS		_
Examiner Initials*	Cite No.	Cite Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	
		Country Code ³ "Number ⁴ "Kind Code ³ (if known)	MM-DD-YYYY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
MY	70	JP 07056941 A	03-03-1995	Tanaka et al.		Г
	71	JP 7-64,169	03-10-1995	Masaru, Mase		Г
	72	JP 11-355,699	06-05-1998	Yukihiro, Sai		Γ
	73	JP 10269326 A	10-09-1998	Nakamura et al		Г
124	74	JP 2001/142971	05-25-2001			Γ

Examiner Signature	LE THEW	Date Consid	dered 7	120/2001

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Sheet 4

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	09/769,136	_		
Filing Date	1/25/2001			
First Named Inventor	Spencer A. Rathus			
Art Unit	2876			
Examiner Name	Le, Thien Minh			
Attorney Docket Number	660-016			

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
174	75	^{US-} 5,615,123	03-25-1997	Davidson et al.	
	76	^{US-} 5,644,408	07-01-1997	Li et al.	
	77	^{US-} 5,751,590	05-12-1998	Cannon et al.	·
	78	^{US-} 5,801,944	09-01-1998	Kara	
	79	^{US-} 5,870,030	09-11-7627	Deluca et al.	
	80	^{US-} 5,872,589	02-16-1999	Morales	
	81	^{US-} 5,948,040	09-07-1999	DeLorme et al.	
$\neg \vdash$	82	^{US-} 5,978,013	11-02-1999	Jones et al.	
	83	^{US-} 5,978,648	11-02-1999	George et al.	
	84	^{US-} 5,995,105	11-30-1999	Reber et al.	
	85	^{US-} 6,002,491	12-14-1999	Li et al.	
	86	^{US-} 6,064,832	05-16-2000	Sato et al.	
	87	^{US-} 6,072,186	06-06-2000	Yokonuma et al.	
	88	^{US-} 6,085,976	07-11-2000	Sehr	
	89	^{US-} 6,095,418	08-01-2000	Swartz et al.	
	90	^{US-} 6,149,441	11-21-2000	Pellegrino et al.	
	91	^{US-} 6,269,342	07-31-2001	Brick et al.	
	92	^{US-} 6,270,351	08-07-2001	Roper	
Hu	93	US- 6,311,214	10-30-2001	Rhoads	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear			
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Sheet 5

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Complete if Known				
Application Number	09/769,136			
Filing Date	1/25/2001	_		
First Named Inventor	Spencer A. Rathus	-		
Art Unit	2876			
Examiner Name	Le, Thien Minh			
Attorney Docket Number	660-016			

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Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
184	94	^{US-} 6,313,732	11-06-2001	Deluca et al.	
1	95	^{US-} 6,331,864	12-18-2001	Coco et al.	,
	96	^{US-} 6,353,772	03-05-2002	Silverbrook	
Tri	97	^{US-} 2001/011276 A1	08-02-2001	Durst Jr. et al.	
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		US-			<u> </u>

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	П	
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